Online and on-campus courses are open to all undergraduate students and recent graduates seeking careers in the sciences. For most classes, lectures will be delivered asynchronously and are recorded by faculty to be accessible online by students to watch at their convenience. Students are required to come to KGI or join online (available for all classes except those with labs) for a weekly discussion session, review of the week’s topics, quizzes, and other learning exercises.

### Biochemistry 180 (online or on-campus)
Biochemistry will explore the fundamental chemical processes underlying life: energy/thermodynamics, macromolecules, metabolism, and molecular biology.

- Units: 3.0
- Course Dates: June 16-August 4, 2020
- Discussion Hours (on campus or online): Tuesdays from 4-6 p.m.

### Biostatistics 200 (online or on-campus)
Biostatistics is designed to serve as an introduction to the methodology of science, focusing on the development of skills in planning, conducting, analyzing of data, and writing up results.

- Units: 3.0
- Course Dates: June 18-August 6, 2020
- Discussion Hours (on campus or online): Thursdays from 4-6 p.m.

### Drug Discovery 210 (online or on-campus)
Drug Discovery introduces the principles of pharmacology and medical chemistry involved in drug development and design. Topics covered include structural features of drugs, functional group properties, mechanisms of drug action, adverse drug reactions, and drug-receptor interactions.

- Units: 1.5
- Course Dates: June 18-July 16, 2020
- Discussion Hours (on campus or online): Thursdays from 4-6 p.m.

### Genetics 230 (online or on-campus)
Genetics will explore how the information in DNA contributes to disease, physical traits, and other inherited characteristics, including DNA structure and function, gene regulation, inheritance patterns, population genetics, and technologies used for sequencing.

- Units: 3.0
- Course Dates: June 17-August 5, 2020
- Discussion Hours (on campus or online): Wednesdays from 4-6 p.m.
How to Apply

Application Deadline
Rolling

How to Apply
Apply online at kgi.edu/summer

Application Requirements
An online application form is required that contains questions about your personal and educational background. Transcripts from all institutions attended are required. Unofficial copies may be used for evaluation purposes. If admitted and you choose to matriculate, official transcripts must be submitted from all college or universities attended. Translated copies must be submitted for International students.

Application Review
We will review applications on a rolling basis. We will strive to notify you about the status of your application as soon as possible.

Human Anatomy with Lab 160 (on-campus)
Human anatomy is the integrated study of the gross and microscopic anatomy of the human body. The course will explore human architecture and how the microscopic and gross forms adhere to the concept of “shape/organization confers function.”

- Units: 4.0
- Course Dates: June 20-August 15, 2020
- Discussion Hours and Lab (on-campus): Saturdays from 8 a.m.–12 p.m. (no class July 4)

Human Physiology with Lab 170 (on-campus)
As a survey course of the fundamental principles of human physiology, the class will delve into molecular mechanisms within the cells to the actions of tissues, organs, organ-systems, and how the organism as a whole adapts to certain phenomenon. Laboratories emphasize inquiry and the use of instrumentation in physiological studies.

- Units: 4.0
- Course Dates: June 20-August 15, 2020
- Discussion Hours and Lab (on-campus): Saturdays from 1-5 p.m. (no class July 4)

Microbiology with Lab 190 (on-campus)
The goals of this lecture/laboratory course are for students to learn about fundamental and 21st century microbiology principles including metagenomics, human microbiome, microbial fuel cells, and global climate change.

- Units: 4.0
- Course Dates: June 16-August 6, 2020
- Lecture Hours (on-campus): Tuesdays and Thursdays from 10:30 a.m.-12:00 p.m.
- Lab Hours (on-campus): Tuesdays and Thursdays from 1-4 p.m.

Costs
$499 per Credit Hour